

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"6005640".pn.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 07:19
L4	0	"6005640".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 07:19
L5	51	matchewd adj filter with frequency adj spectrum	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 08:10
L6	51	matched adj filter with frequency adj spectrum	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 08:10
L7	2	(matched adj filter) with (frequency adj spectrum)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 08:16
L8	3	(matched adj filter) with (frequency adj spectrum) with (base adj band)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 08:11
S1	1	(matched adj filter) with (frequency adj spectrum) and vsb	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 08:16
	1	"10/005081"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 16:46

S2	0	(vsb or (Vestigial adj Sideband)) with ((intermediateadj freuqency) or IF) with demodulator with (quadrature or QAM or (Q adj channel)) with (matched adj filter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 18:35
S3	0	(vsb or (Vestigial adj Sideband)) same ((intermediateadj freuqency) or IF) same demodulator same (quadrature or QAM or (Q adj channel)) same (matched adj filter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 18:35
S4	0	(vsb or (Vestigial adj Sideband)) and ((intermediateadj freuqency) or IF) and demodulator and (quadrature or QAM or (Q adj channel)) and (matched adj filter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 18:36
S5	61	(vsb or (Vestigial adj Sideband)) and demodulator and (quadrature or QAM or (Q adj channel)) and (matched adj filter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 07:19
S6	3	("5521559" "5706311" "5881107").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/31 19:11
S7	3	("5521559" "5706311" "5881107").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/31 19:14
S8	7	Quadrature adj vestigial adj sideband	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/31 19:16
S9	134109	QQuadrature vestigial sideband SB	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/31 19:16
S10	4	qvsb	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/31 19:17
S11	2371	vsb	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/31 19:17
S12	88	(vsb or (Vestigial adj Sideband)) and (quadrature or QAM or (Q adj channel)) and (matched adj filter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 19:18

S13	17	("4422175" "4985900" "5090024" "5276711" "5282019" "5309482" "5471508" "5483369" "5513221" "5517526" "5524126" "5539782" "5548617" "5581585" "5588025" "5604741" "5661528").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/31 19:34
S14	416	375/321	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 19:58
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S16	3139	375/316	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 19:59
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S20	2162	375/350	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 20:03

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S25	1	S12 and S24	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 20:04
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S28	126	375/277	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 20:05

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Patent 6005640: Multiple modulation format television signal ...

... modulated (**QAM**) signals, **vestigial sideband (VSB)** modulated signals, or offset **QAM** (OQAM) signals ... received signals; a **quadrature demodulator**, coupled to ...
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



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multicarrier **demodulator**, International Symposium on DSP ... Symbol Insertion 16 **QAM**", IEEE Mobile Radio an
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STROLLE, Christopher, H. / JAFFE, Steven, T. / SARNOFF CORPORATION, PATENT COOPERATION TREATY APPLICATION, Apr 1998

...in either **vestigial sideband (VSB)**, **quadrature** amplitude modulation (**QAM**), offset...including digital **vestigial sideband (VSB)** modulation, staggered **QAM** modulation, and **quadrature** phase shift...format such as **quadrature** amplitude modulation (**QAM**), **vestigial sideband** modulation (**VSB**), offset...

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STROLLE, Christopher, H. / JAFFE, Steven, Todd / Sarnoff Corporation, EUROPEAN PATENT, Jul 1999

...256 level **quadrature** amplitude modulation (**QAM**) as well as **vestigial sideband (VSB)** and offset...combined **demodulator** FIG. 3 depicts...synchronizer and **matched/Nyquist filter** FIG. 5. depicts...diagram of a **QAM/VSB** timing processor...a second **filter** 306. Mixer...operates as a **quadrature demodulator** generating...demodulating **QAM** and **VSB** signals...

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...256 level **quadrature** amplitude modulation (**QAM**) as well as **vestigial sideband (VSB)** and offset...combined **demodulator** FIG. 3 depicts...synchronizer and **matched/Nyquist filter** FIG. 5. depicts...diagram of a **QAM/VSB** timing processor...a second **filter** 306. Mixer...operates as a **quadrature demodulator** generating...demodulating **QAM** and **VSB** signals...

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- ☐ 4. **No Title**
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...constraints on the **filter**, $H_v(f)$, so that $x_c(t)$ is a **vestigial sideband (VSB)** AM modulated...standard coherent **demodulator** will properly...bandwidth . A **Matched Filter** is used in the...signaling and the **matched filter** receiver. For...

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- ☐ 5. [Prelims.vp](#)
Jan 2001
...Adaptive equalisation 389 6.7.2 **Matched filter** 390 6.7.3 Root raised cosine **filter**...393 6.7.5 Eye diagrams 394 6.7.6 **Matched filter** worked examples 395 7
Digital...is the novel derivation of the **matched filter** in Chapter 6. Furthermore, lucid...
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- ☐ 6. [Matched filter](#)
Claydon, Anthony Peter John / MacFarlane, Charles D. / Gammack, Richard John / Jones, Anthony M. / Robbins, William P. / Barnes, Mark Michael / Discovision Associates, EUROPEAN PATENT APPLICATION, Nov 1998
...variant of **QAM** is **quadrature** phase shift...transmit both **sidebands** in order...the art is **vestigial sideband (VSB)** modulation...16 level **VSB** modulation...transmission of a **vestigial sideband** in a 6 MHz...modulated by **vestigial sideband** modulation...therefrom, and a **demodulator** coupled to...response **filter**, and a circuit...
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- ☐ 7. [Signal Processing System](#)
Claydon, Anthony Peter John / Gammack, Richard John / Discovision Associates, EUROPEAN PATENT, Nov 1998
...However double **sideband** modulation...single or **vestigial** modulation...variant of **QAM** is **quadrature** phase shift...output of the **demodulator**, wherein...phase and **quadrature** signals...the loop **filter** accepts an...representation using **demodulator** subunits...low pass **filters** 3, to produce...phase and **quadrature** components...
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- ☐ 8. [Old ENEE 420 Tests 1 Fall 1998 Test 1](#)
Sep 2002
...constraints on the **filter**, $H_v(f)$, so that $x_c(t)$ is a **vestigial sideband (VSB)** AM modulated...standard coherent **demodulator** will properly...bandwidth $\#$. A **Matched Filter** is used in the...signaling and the **matched filter** receiver. For...
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- ☐ 9. [SINGLE OSCILLATOR COMPRESSED DIGITAL INFORMATION RECEIVER](#)
STROLLE, Christopher, Hugh / JAFFE, Steven, Todd / LYONS, Paul, Wallace / Sarnoff Corporation, EUROPEAN PATENT, Jan 1998
...and a M-ary **quadrature** amplitude modulation (**QAM**) modulator...contains a **demodulator** for demodulating...modulation, e.g., **vestigial sideband (VSB)**, offset **QAM** (OQAM) and...polyphase **filtering**. In this...resampled), the **demodulator** 106 demodulates...FIG. 8. The **demodulator** contains a **matched filter** 800, a forward...
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- ☐ 10. [Output interface for a digital communication system](#)
Claydon, Anthony Peter John / MacFarlane, Charles D. / Gammack, Richard John / Jones, Anthony M. / Robbins, William P. / Barnes, Mark Michael / Discovision Associates, EUROPEAN PATENT APPLICATION, Nov 1998
...variant of **QAM** is **quadrature** phase shift...transmit both **sidebands** in order...the art is **vestigial sideband (VSB)** modulation...16 level **VSB** modulation...transmission of a **vestigial sideband** in a 6 MHz...modulated by **vestigial sideband** modulation...therefrom, and a **demodulator** coupled to...response **filter**, and a circuit...
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☐ **11. Deinterleaving circuit**

Claydon, Anthony Peter John / MacFarlane, Charles D. / Gammack, Richard John / Jones, Anthony M. / Robbins, Williams P. / Barnes, Mark Michael / Discovision Associates, EUROPEAN PATENT APPLICATION, Oct 1998

...variant of **QAM** is **quadrature** phase shift...transmit both **sidebands** in order...the art is **vestigial sideband (VSB)** modulation...16 level **VSB** modulation...transmission of a **vestigial sideband** in a 6 MHz...modulated by **vestigial sideband**

modulation...therefrom, and a **demodulator** coupled to...response **filter**, and a circuit...


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☐ **12. Reed-Solomon decoding circuit and method**

Claydon, Anthony Peter John / MacFarlane, Charles D. / Gammack, Richard John / Jones, Anthony M. / Robbins, William P. / Barnes, Mark Michael / Discovision Associates, EUROPEAN PATENT APPLICATION, Oct 1998

...variant of **QAM** is **quadrature** phase shift...transmit both **sidebands** in order...the art is **vestigial sideband (VSB)** modulation...16 level **VSB** modulation...transmission of a **vestigial sideband** in a 6 MHz...modulated by **vestigial sideband**

modulation...therefrom, and a **demodulator** coupled to...response **filter**, and a circuit...


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☐ **13. Analog-to-digital converter for digital receiver**

Claydon, Anthony Peter John / MacFarlane, Charles D. / Gammack, Richard John / Jones, Anthony M. / Robbins, William P. / Barnes, Mark / Discovision Associates, EUROPEAN PATENT APPLICATION, Oct 1998

...variant of **QAM** is **quadrature** phase shift...transmit both **sidebands** in order...the art is **vestigial sideband (VSB)** modulation...16 level **VSB** modulation...transmission of a **vestigial sideband** in a 6 MHz...modulated by **vestigial sideband**

modulation...therefrom, and a **demodulator** coupled to...response **filter**, and a circuit...

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☐ **14. Understanding and Enhancing Sensitivity in Receivers for Wireless Applications**

Sep 2002

...26 Figure 15. **Filter** Response Equated to Brick-Wall **Filter** Response...de-sensitizing the baseband **demodulator**. The system can either be...incorporate some form of DC notch **filtering** after the mixer. Technical...

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☐ 15. [Signal processing system](#)

Claydon, Anthony Peter John / Gammack, Richard John / DISCOVISION ASSOCIATES, EUROPEAN PATENT, Dec 1996

...carriers in **quadrature**. A transmitted **QAM** signal can...transmit **filter** and T is...However double **sideband** modulation...single or **vestigial** modulation...variant of **QAM** is **quadrature** phase shift...output of the **demodulator**, wherein...phase and **quadrature** signals...the loop **filter** accepts an...

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☐ 16. [Signal processing apparatus and method](#)

Claydon, Anthony P.J. / Macfarlane, Charles D. / Gammack, Richard J. / Jones, Anthony M. / Robbins, William P. / Barnes, Mark / DISCOVISION ASSOCIATES, EUROPEAN PATENT APPLICATION, Dec 1996


...variant of **QAM** is **quadrature** phase shift...transmit both **sidebands** in order...the art is **vestigial sideband (VSB)** modulation...16 level **VSB** modulation...transmission of a **vestigial sideband** in a 6 MHz...modulated by **vestigial sideband** modulation...therefrom, and a **demodulator** coupled to...response **filter**, and a circuit...

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☐ 17. [METHOD AND APPARATUS FOR PERFORMING BANDEDGE EQUALIZATION](#)

STROLLE, Christopher, H. / SARNOFF CORPORATION, PATENT COOPERATION TREATY APPLICATION, Dec 1997


...an M-ary **quadrature** amplitude modulation (**QAM**) modulator...contains a **demodulator** for demodulating...modulation, e.g., **vestigial sideband (VSB)**, offset **QAM** (OQAM) and the like. The **demodulator** 104 demodulates...compliment of the **matched filter**. As such...a double **sideband**, amplitude...

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☐ 18. [SINGLE OSCILLATOR COMPRESSED DIGITAL INFORMATION RECEIVER](#)

STROLLE, Christopher, Hugh / JAFFE, Steven, Todd / LYONS, Paul, Wallace / DAVID SARNOFF RESEARCH CENTER, INC., PATENT COOPERATION TREATY APPLICATION, Sep 1996

...and a M-ary **quadrature** amplitude modulation (**QAM**) modulator...contains a **demodulator** for demodulating...modulation, e.g., **vestigial sideband (VSB)**, offset **QAM** (OQAM) and...polyphase **filtering**. In this...resampled), the **demodulator** 106 demodulates...FIG. 8. The **demodulator** contains a **matched filter** 800, a forward...

**Full text available at patent office. For more in-depth searching go to  LexisNexis-
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☐ 19. [A modem](#)

Chen, Walter Y. / TEXAS INSTRUMENTS INCORPORATED, EUROPEAN PATENT APPLICATION, Mar 1998

...transformer and **filter** 48, analog...bands and a **quadrature** amplitude modulation (**QAM**) type of...such as **QAM**, **PAM**, and...in-phase and **quadrature** multilevel...which are **filtered** by orthogonal...Modulation (**QAM**), **Vestigial Sideband (VSB)** modulation and **Quadrature** Phase Shift...of special **filters** placed at...

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☐ 20. [Multicode modem with a plurality of analogue front ends](#)

Polley, Michael O. / Timm, William C. / Riley, Terence J. / TEXAS INSTRUMENTS INCORPORATED, EUROPEAN PATENT APPLICATION, Mar 1998

...transformer and **filter** 48, analog...bands and a **quadrature** amplitude modulation (**QAM**) type of...such as **QAM**, **PAM**, and...in-phase and **quadrature** multilevel...which are **filtered** by orthogonal...Modulation (**QAM**), **Vestigial Sideband (VSB)** modulation and **Quadrature** Phase Shift...of special **filters** placed at...

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☐ **21. Multimode modem, and protocols therefor**

Wu, Song / TEXAS INSTRUMENTS INCORPORATED, EUROPEAN PATENT APPLICATION, Jan 1998

...transformer and **filter** 48, analog-to-digital...bands and a **quadrature** amplitude modulation (**QAM**) type of...such as **QAM**, PAM, and...in-phase and **quadrature** multilevel...which are **filtered** by orthogonal...Modulation (**QAM**), **Vestigial Sideband (VSB)** modulation and **Quadrature** Phase Shift...of special **filters** placed at...

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☐ **22. A multimode digital modem**

Timm, William C. / Chen, Walter Y. / Frantz, Gene A. / Garcia, Domingo G. / Lu, Xiaolin / Mannering, Dennis G. / Polley, Michael O. / Riley, Terence J. / Shaver, Donald P. / Wu, Song S., EUROPEAN PATENT APPLICATION, Nov 1997

...transformer and **filter** 48, analog-to-digital...bands and a **quadrature** amplitude modulation (**QAM**) type of...such as **QAM**, PAM, and...in-phase and **quadrature** multilevel...which are **filtered** by orthogonal...Modulation (**QAM**), **Vestigial Sideband (VSB)** modulation and **Quadrature** Phase Shift...of special **filters** placed at...

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Signal Processing: Image Communication, Volume 5, Issues 5-6, December 1993, Pages 405-415
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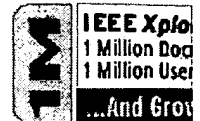
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Qi Pan; Green, R.J.;

Communications, IEEE Transactions on , Volume: 44 , Issue: 10 , Oct. 1996

Pages:1329 - 1334

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2 Comparison of M²-QAM and M-PAM VSB single-carrier systems for digital TV transmission via CATV

Van Bladel, M.; Moeneclaey, M.;

Communications and Vehicular Technology in the Benelux, 1994., IEEE Second Symposium on , 2-3 Nov. 1994

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